

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5406	257/758	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 20:45
L2	3	257/e21.573	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 20:45
L3	4	257/e21.581	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 20:46
L4	6	257/e21.584	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 20:47
L5	4	257/e21.585	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 20:47
L6	1	257/e21.587	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 20:47
L7	1124	257/759	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 20:57
L8	1319	257/760	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 21:07

## EAST Search History

L9	3863	257/774	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 21:19
L10	789	438/619	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 22:01
L11	1382	438/586	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 22:14
L12	1722	438/723	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 22:21
L13	365	(semiconductor or die or dice or chip or IC) and air with (dielectric or insulat\$3) near (layer or liner or barrier) with (plug or interconnect\$3 or wire or via)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 22:24
S1	3190	dual near damascene	USPAT	OR	OFF	2005/06/10 16:49
S3	206	dual near damascene with (air or gap or void or space)	USPAT	OR	ON	2005/06/15 13:26
S4	27179	"2" not "3"	USPAT	OR	ON	2005/06/15 13:25
S5	30719	"s2" not "s3"	USPAT	OR	ON	2005/06/15 13:25
S6	3211	dual near damascene	USPAT	OR	ON	2005/06/15 13:25
S7	206	dual near damascene with (air or gap or void or space)	USPAT	OR	ON	2005/06/15 13:26
S8	3005	S6 not S7	USPAT	OR	ON	2005/06/15 13:26
S9	485	damascene with (air or gap or void or space)	USPAT	OR	ON	2005/06/15 16:06
S10	279	S9 not S7	USPAT	OR	ON	2005/06/15 13:27
S11	428	damascene with (air or gap or void or space)	US-PGPUB; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/15 16:06

## EAST Search History

S12	238	damascene and teflon	USPAT	OR	OFF	2005/06/16 13:32
S13	12	damascene and teflon with silica	USPAT	OR	OFF	2005/06/16 13:32
S14	191	damascene and (air or gap or void or space) and (polyarylene near ether or parylene or teflon or porous) and (OSG or FSG)	USPAT	OR	ON	2005/06/16 13:42
S15	129	damascene and (air or gap or void or space) and (polyarylene near ether or parylene or teflon ) and (OSG or FSG)	USPAT	OR	ON	2005/06/16 18:37
S16	378	FSG with fluorinated	USPAT	OR	ON	2005/06/16 17:55
S17	157	FSG with fluorinated near silicate near glass	USPAT	OR	ON	2005/06/16 18:03
S18	1	"6815254".pn.	USPAT	OR	ON	2005/06/16 18:03
S19	8	damascene and (air or gap or void or space) and (parylene ) with (bene\$5 or increas\$3 or reduc\$3 or decreas\$3)	USPAT	OR	ON	2005/06/16 20:03
S20	4839	257/758	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 20:29
S21	19	"6603204".pn. or "6596624".pn. or "6596467".pn. or "6589644".pn. or "6577011".pn. or "6479374".pn. or "6413852".pn. or "6387824".pn. or "6362091".pn. or "6319854".pn. or "6287979".pn. or "6265780".pn. or "5994776".pn. or "5965202".pn. or "5548159".pn. or "5470801".pn. or "5468685".pn. or "5461003".pn. or "20030114013".pn.	US-PGPUB; USPAT	OR	ON	2005/06/16 20:26
S22	1018	257/759	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 20:34
S23	1195	257/760	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 20:44

## EAST Search History

S24	3501	257/774	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 20:44
S25	1246	damascene and (air or gap or void or space) with (trench or via or hole)	USPAT	OR	ON	2005/12/08 21:29
S26	986	damascene and (air or gap or void ) with (trench or via or hole)	USPAT	OR	ON	2005/12/08 21:29
S27	766	damascene and (air or void ) with (trench or via or hole)	USPAT	OR	ON	2005/12/08 21:29
S28	44	"5869880" or "6184126" or "6017814" or "6949456"	USPAT	OR	ON	2005/12/08 21:29
S29	4	("5407860"   "5444015"   "5510293"   "5559055").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/08 21:33
S30	1	"5824599".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/09 13:01
S31	3	"5222014".pn. or "6492276".pn. or "20040061213".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/09 13:02
S32	23	("5869880").URPN.	USPAT	OR	OFF	2005/12/09 13:48
S33	1	("6214719").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/09 14:20
S34	5	("5736446"   "5883009"   "5891783"   "5914519"   "6093633").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/09 14:20
S35	14	("4944836"   "5310700"   "5444015"   "5476817"   "5488015"   "5510293"   "5559055"   "5591677"   "5641711"   "5641712"   "5698467"   "5811352"   "5814558"   "5837618").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/09 14:21
S36	9	("6093633").URPN.	USPAT	OR	OFF	2005/12/09 14:22
S37	9	("6214719").URPN.	USPAT	OR	OFF	2005/12/09 14:24
S38	1	("6214719").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/09 14:25
S39	1	("6406992").URPN.	USPAT	OR	OFF	2005/12/09 14:25

## EAST Search History

S40	11	("5548159"   "5744865"   "5814555"   "5847464"   "6022802"   "6025260"   "6077767"   "6090698"   "6091149"   "6159842"   "6159845").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/09 14:33
S41	6	("5252517"   "5275972"   "5324683"   "5408130"   "5616960"   "5953625").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/09 14:37
S42	12	("4656732"   "4700457"   "4872050"   "4900695"   "4924295"   "4977105"   "5045501"   "5051794"   "5091762"   "5100838"   "5116776"   "5204286").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/12/09 14:38
S43	61	("5408130").URPN.	USPAT	OR	OFF	2005/12/09 14:39
S44	9	("6090698").URPN.	USPAT	OR	OFF	2005/12/09 14:41
S45	2840	damascene and barrier with (dielectric or insulat\$3)	USPAT	OR	ON	2005/12/09 14:43
S46	1373	damascene same barrier with (dielectric or insulat\$3)	USPAT	OR	ON	2005/12/09 14:44
S47	64	damascene same barrier with (dielectric or insulat\$3) with (benefit or provid\$3 or better)	USPAT	OR	ON	2005/12/09 14:46
S48	2	damascene same barrier near (dielectric or insulat\$3) with (benefit or provid\$3 or better)	USPAT	OR	ON	2005/12/09 14:46
S49	123	damascene same barrier near (dielectric or insulat\$3)	USPAT	OR	ON	2005/12/09 14:58
S50	39	damascene and barrier near (dielectric or insulat\$3) with trench	USPAT	OR	ON	2005/12/09 15:15
S51	1	"5281850".PN.	USPAT; USOCR	OR	OFF	2005/12/09 15:00
S52	823	damascene and barrier with (dielectric or insulat\$3) same trench with barrier	USPAT	OR	ON	2005/12/09 15:15
S53	556	damascene and barrier near layer with (dielectric or insulat\$3) same trench with barrier near layer	USPAT	OR	ON	2005/12/09 15:16
S54	233	damascene and barrier near layer with formed with (dielectric or insulat\$3) same trench with barrier near layer	USPAT	OR	ON	2005/12/09 15:16

## EAST Search History

S55	30	damascene and barrier near layer with formed with (dielectric or insulat\$3) near material same trench with barrier near layer	USPAT	OR	ON	2005/12/09 15:20
S56	1	"4675074".PN.	USPAT; USOCR	OR	OFF	2005/12/09 15:17
S57	0	damascene and barrier with (conductive or non-conductive) and non-conductivve with (dielectric or insulat\$3) near material same trench with barrier near layer	USPAT	OR	ON	2005/12/09 15:21
S58	0	damascene and barrier with (conductive or non-conductive) and non-conductivve with (dielectric or insulat\$3) near material and trench with barrier near layer	USPAT	OR	ON	2005/12/09 15:21
S59	465	damascene and barrier with (conductive or non-conductive) and trench with barrier near layer	USPAT	OR	ON	2005/12/09 15:21
S60	0	damascene and barrier with layer with (conductive or non-conductive) and non-conductivve with (dielectric or insulat\$3) near material	USPAT	OR	ON	2005/12/09 15:21
S61	0	damascene and barrier with layer with (conductive or non-conductive) and non near conductivve with (dielectric or insulat\$3) near material	USPAT	OR	ON	2005/12/09 15:22
S62	713	damascene and barrier with layer with (dielectric or insulat\$3) near material	USPAT	OR	ON	2005/12/09 15:22
S63	198	damascene and barrier with layer with (dielectric or insulat\$3) near material and benefit	USPAT	OR	ON	2005/12/09 15:22
S64	6	damascene and barrier with layer with (dielectric or insulat\$3) near material same benefit	USPAT	OR	ON	2005/12/09 15:25
S65	174	damascene and barrier with layer with (dielectric or insulat\$3) same advantage	USPAT	OR	ON	2005/12/09 15:31
S66	0	damascene and barrier with (conductive) with barrier with none near conductive	USPAT	OR	ON	2005/12/09 15:32
S67	0	damascene and barrier with (conductive) with barrier with "none-conductive"	USPAT	OR	ON	2005/12/09 15:33

## EAST Search History

S68	13	damascene and barrier with (dielectric or insulat\$3) near liner	USPAT	OR	ON	2005/12/09 15:39
S69	727	damascene and barrier with (dielectric or insulat\$3) with trench	USPAT	OR	ON	2005/12/09 15:45
S70	31	damascene and barrier with conductive same barrier with non-conductive and non-conductive with (dielectric or insulat\$3)	USPAT	OR	ON	2005/12/09 16:50
S71	5250	257/758	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/09 16:54
S72	766	438/619	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/09 18:12
S73	1100	257/759	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/09 18:19
S74	1285	257/760	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/09 18:29
S75	3761	257/774	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/09 18:29